MEMORANDUM

TO: Mr. Aaron Nissen, IPSC

FROM: Richard J. Monro, RJM

DATE: October 24, 1991

REF: B&W Telephone Conferences

I have had several telephone conferences yesterday and today with B&W concerning the new burner design. The following comments are in order:

1. B&W's hinged, six-segmented back plate arrangement is a workable concept. Our only reservation is the ¼" gap at the inner radius of the panels. RJM engineers believe this gap should be 3/8" and after discussions with Carl Palmberg this morning, B&W has adopted this clearance standard. This 1/8" additional clearance provides more positive margin against assembly tolerances and unknown factors.

2. B&W has increased the inner and outer radius gap clearances. RJM has no objections to this modification.

3. B&W proposes a sliding-rail, two-footed arrangement to maintain the outer zone register assembly concentric with the burner inner zones and perpendicular to the burner axis. This design is not acceptable. Cocking or tilting of the outer register assembly can still occur. B&W does not wish to use the radial support arrangement proposed by RJM Corporation since they feel it rigidly fixes the outer zone to the burner assembly. As an alternative, "L" brackets from the axial support bars to the outer support ring of the outer register could be used. A "L" bracket permits axial positioning while allowing flexible movement of the support strut if the outer zone register requires movement due to thermal growth. B&W has taken this design under consideration and will make a final decision within three weeks. Carl Palmberg did state however, that if IPSC insists on these brackets, they will be installed.

4. B&W is providing three support rods 120 degrees apart to maintain the concentricity of the throat sleeve with the remainder of the burner. This solution will work provided the support rods do not trap the throat sleeve in the clips and prevent its circumferencial growth.

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